

## Title (en)

Composite products and molded articles obtained therefrom

## Title (de)

Verbundwerkstoffe und daraus geformte Artikel

## Title (fr)

Nouveaux produits composites et articles moulés obtenus à partir desdits produits

## Publication

**EP 1393884 A1 20040303 (FR)**

## Application

**EP 03356126 A 20030828**

## Priority

FR 0210769 A 20020830

## Abstract (en)

A composite product comprising a central fibrous support on one side of which is a layer of thermosetting resin and on the other side a layer of hardener for the resin with the fibrous layer forming a barrier between the two outer layers. At least part of the thickness of the support is free from resin and hardener. Independent claims are included for (1) a composite article obtained from the claimed composite product; (2) a composite molded product obtained from the claimed composite product; (3) a method of fabricating an article comprising the steps of stacking up different claimed composite products and submitting the stack to reduced pressure and vibrations to facilitate the migration of resin and hardener into the support and then heated to a temperature sufficient to ensure crosslinking of the resin; (4) a method in which the stack is compressed at a temperature sufficient to ensure crosslinking of the resin .

## Abstract (fr)

L'invention concerne un produit composite (1) comportant un renfort fibreux (2) médian, une couche à base de résine thermodurcissable (3) et une couche à base d'agent durcisseur (4) pour la résine thermodurcissable, caractérisé en ce que la couche à base de résine thermodurcissable (3) est disposée sur l'une des grandes faces (2a) du renfort fibreux (2), la couche à base d'agent durcisseur (4) est disposée sur l'autre grande face (2b) du renfort fibreux (2), le renfort fibreux (2) constituant une barrière physique entre la résine thermodurcissable et son durcisseur. <IMAGE>

## IPC 1-7

**B29C 70/54**; **B32B 5/08**; **B32B 27/04**; **B29C 35/00**

## IPC 8 full level

**B29C 35/00** (2006.01); **B29C 70/30** (2006.01); **B29C 70/34** (2006.01); **B29C 70/54** (2006.01); **B31B 50/62** (2017.01); **B32B 5/08** (2006.01); **B32B 27/04** (2006.01); **C08J 5/24** (2006.01)

## CPC (source: EP US)

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## Citation (search report)

- [A] FR 2036235 A5 19701224 - GLE PRODUIT EXPLOIT
- [AD] US 3666615 A 19720530 - IWAI TOSHIHARU, et al
- [A] US 3674021 A 19720704 - SNYDER HAROLD I, et al
- [A] US 3935355 A 19760127 - KUHN HANS GEORG

## Cited by

GB2409837A; GB2409837B; US7223466B2; US7740907B2

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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